

ABSTRACT OF THE DISCLOSURE

A method of operating a fuel reformer includes advancing a first air/fuel mixture having a first air-to-fuel ratio into the fuel reformer. The method further includes determining if a soot purge is to be performed and generating a
5 purge-soot signal in response thereto. Further, a second air/fuel mixture having a second air-to-fuel ratio is advanced into the fuel reformer in response to generation of the purge-soot signal. The second air-to-fuel ratio is greater than the first air-to-fuel ratio in order to burn soot present within the fuel reformer. A fuel reformer system is also disclosed.